



C5769 Log Data Report

Borehole Information:

Borehole:	C5769			Site:	216-U-10		
Coordinates (WA St Plane)	GWL ¹ (ft):	None		GWL Date:	05/13/08	
North (m)	East (m)	Drill Date	TOC Elev	ation	Total Depth (ft)	Type	
Not available	Not available	Not available	Not avail	able	Not available	Percussion	

Casing Information:

		Outer	Inside			
Casing Type	Stickup (ft)	Diameter (in.)	Diameter (in.)	Thickness (in.)	Top (ft)	Bottom (ft)
Welded steel	0.5	7	5 3/4	5/8	0.5	20

Borehole Notes:

The logging engineer measured the casing diameter with a caliper and steel tape. All log data are referenced to the ground surface.

Logging Equipment Information

Logging System:	Gamma 4L		Type: Serial No.:	SGLS HpGe (60%) 47TP32211A
Effective Calibration Date:	12/31/07	Calibration Reference:	HGLP-CC-027	
		Logging Procedure:	HGLP-MAN-0	002, Rev. 0

Spectral Gamma Logging System (SGLS) Log Run Information:

Log Run	1	2 Repeat	
Date	05/13/08	05/13/08	
Logging Engineer	Spatz	Spatz	
Start Depth (ft)	19.0	7.5	
Finish Depth (ft)	0.0	5.5	
Count Time (sec)	200	200	
Live/Real	R	R	
Shield (Y/N)	N	N	
MSA Interval (ft)	0.5	0.5	
Pre-Verification	DL331CAB	DL331CAB	
Start File	DL341000	DL341039	
Finish File	DL341038	DL341043	
Post-Verification	DL341CAA	DL341CAA	
Depth Return Error (in.)	- 0.5	0	
Comments	Fine gain adjustment after file -039	No fine gain adjustment	

Logging Operation Notes:

Logging was conducted with a centralizer on the sonde. All measurements are referenced to ground surface.

Analysis Notes:

Analyst: Henwood	d Date:	06/04/08	Reference:	GJO-HGLP 1.6.3, Rev. 0	
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HGLP-LDR-219, Rev. 0

Pre- and post-run verifications for the logging system were performed before and after each day's data acquisition. The acceptance criteria were met.

A casing correction for a 5/8-in. thick casing was applied to the SGLS data.

SGLS spectra were processed in batch mode using APTEC SUPERVISOR to identify individual energy peaks and determine count rates. Concentrations were calculated with an EXCEL worksheet template identified as G4LDec07.xls using efficiency functions and corrections for casing, dead time, and water as determined from annual calibrations.

Results and Interpretations:

Cs-137 was detected from 2.5 to 8 ft and at a few locations between 10 and 15 ft. The maximum Cs-137 concentration was measured at approximately 460 pCi/g at 4.5 ft.

Repeat sections acquired for the logging system indicate good repeatability.

List of Log Plots:

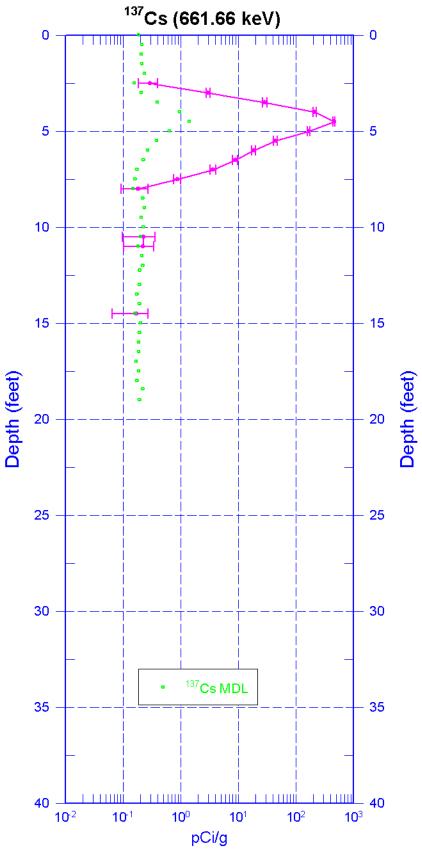
Depth Reference is ground surface

Manmade Radionuclides
Natural Gamma Logs
Combination Plot
Total Gamma & Dead Time
Repeat of Manmade Radionuclides
Repeat of Natural Gamma Logs

¹ GWL – groundwater level

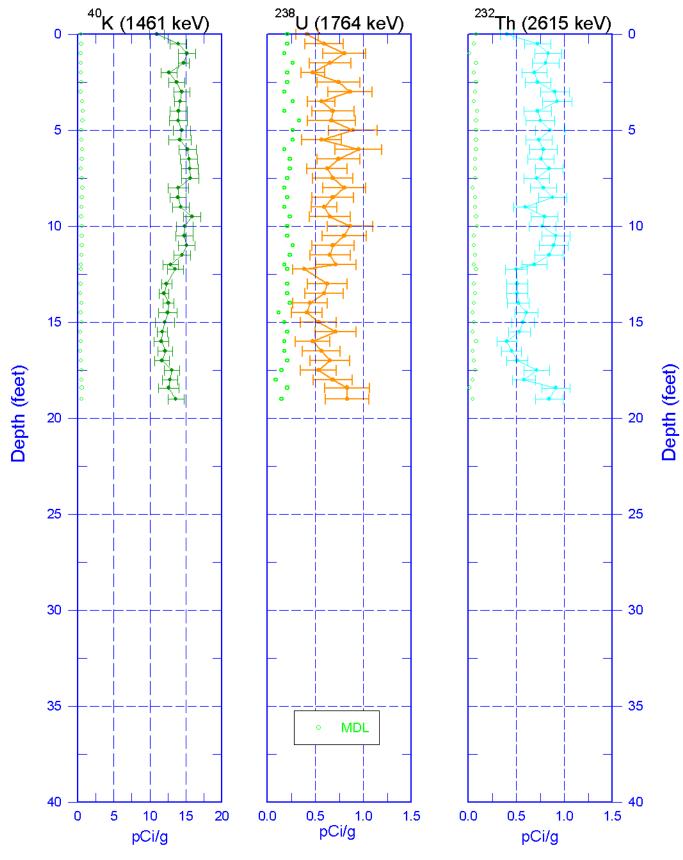


C5769 Manmade Radionuclides



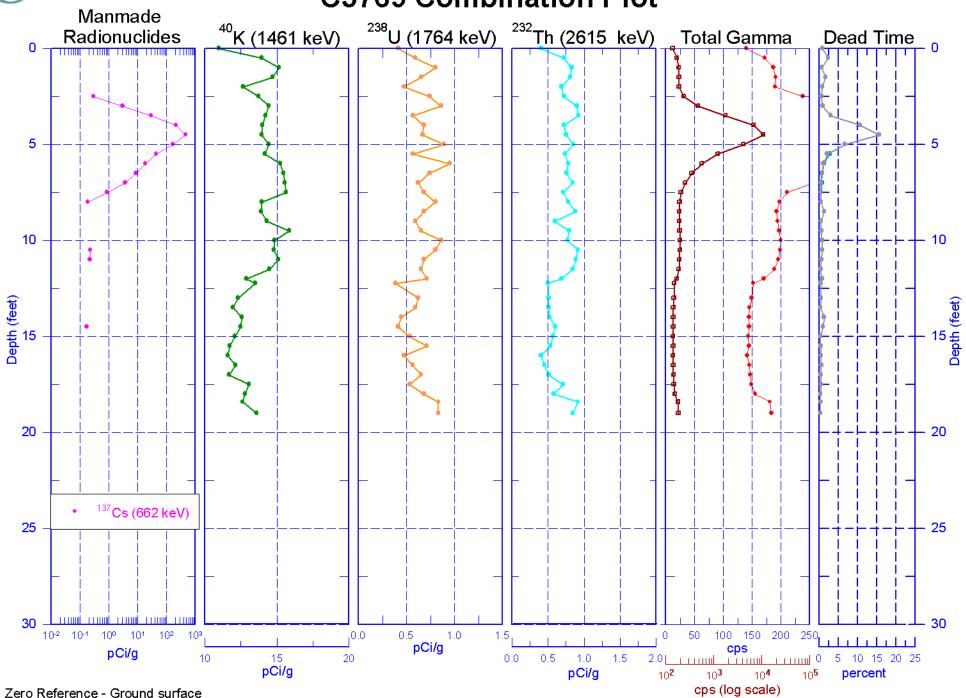


C5769 Natural Gamma Logs





C5769 Combination Plot





__ C5769 Total Gamma & Dead Time

